SEQUENCE PROTOCOL

<110> Rhein Biotech Gesellschaft für neue biøtechnologische Prozesse und Produkte mbH

<120> Nucleic acid molecule, comprising a nucleic acid coding for a polypeptide with chorismate mutase activity

```
<130> P30558-01996
```

<140>

<141>

<160> 3

<170> PatentIn Ver. 2.1

<210> 1

<211> 843

<212> DNA

<213> Hansenula polymorpha

<400> 1atggactttatgaagccagaaacagtgctggaccttggcaacattagagatgccttggtc60cggatggaggatacgatcatctcaactttatcgagcggtcgcagttctatgcgtcgcc120tcggtatacaaagtcaaccagttccctattcccaacttcgacggctcgttcttggactgg180ctgttgtcgcagcacgagcgaatccattcgcaggtgaggagatacgacgcgccagacgag240gtgcttttttcccaacgtgctggaaaaaacgttctgcccaagatcaactacccatcg300gtgctagctcctacgcggatgaaatcaacgtcaacaaagaggagagacaaggagagacaaccttggctcg420tcaggaatggccgacatcgagtgcctgcagtcgctatccagaagaaatccattttggccgt480ttgtcgcaaaggctaaatttatcagtgagggggacaagatttgtggatctgatcaacaaag540agagatgtggaaggcctcatcacaaaacgccgaggtcgaaaaacggatcttg600gacagacttctggagaaggacaaaacgccgaggtcgaaaatttcgtgatt720cacattcagaagaaggtgaaagtcgacaaatttgctgagaccgaggaggac780cacatcacgaagaaggtcgaattgctgaacagttctctcctctggcttgtac840

<210> 2

tag

<211> 280

<212> PRT

<213> Hansenula polymorpha

Asp Ala Leu Val Arg Met Glu Asp Thr Ile Ile Phe Asn Phe Ile Glu 25

Arg Ser Gln Phe Tyr Ala Ser Pro Ser Val Tyr Lys Val Asn Gln Phe 45

Pro Ile Pro Asn Phe Asp Gly Ser Phe Leu Asp Trp Leu Leu Ser Gln 50

His Glu Arg Ile His Ser Gln Val Arg Arg Tyr Asp Ala Pro Asp Glu

v . -

								75			'		80	
65				70			_		Dho	T.611	Pro :	Lvs :	Ile	
	ro Phe		92											
	yr Pro	100												
	lu Ile 115													
1	ly Ser			-										
145	(le Glu			130										
	Val Ala		100											
	Ile Lys	180												
	Glu Vai	5												
	Tyr Gî 210				210									
225	Val Ly			230										
	Leu Th		24	5										
Àsp	Glu G	lu As 26	p As	p Asp	Ala T	hr G	Th L 65	ys S	er G	ly G	ly T; 2	yr Va 70	al Asp	
Arç	g Phe L 2	eu Se ?75	er Se	er Gly	Leu !	Tyr 280								
<2	10> 3 11> 165 12> DNZ 13> Hai	A	la p	olymo	rpha									
<2	220> 221> ge 222> (1 223> 1,		genc	omic I	NA-fr	agmer	nt fr	om H	anse	nula	ı		-	
_		-AT T	neca	-Cyya	u	_	-				++		itacttctc itactatat itgacagag agcaaggag	u

gaacttgagg cagaaacagt tcatcttcaa accagttccc agcgaatcca acgtgctgga cggatgaaat gaatagctgc tcgagtgcct	gcggtttttg agcgtttttt gctggacctt ctttatcgag tattcccaac ttcgcaggtg aaaaacgttt caacgtcaac aggcagcgga gcagtcgcta tgagggggac	ggcaacatta cggtcgcagt ttcgacggct aggagatacg ctgcccaaga aaagagatac gagcaggaga tccagaaga	gagatgcctt tctatgcgtc; cgttcttgga acgcgccaga tcaactaccc tcaagatcta acaaccttgg	ggtccggatg gccctcggta ctggctgttg cgaggtgcct atcggtgcta cacgtcagag ctcgtgcgca ccgttttgtc	gaggatacga tacaaagtca tcgcagcacg tttttcccca gcctcctacg atagtaccag atggccgaca gcagaggcta gtggaaggca	420 480 540 600 660 720 780 840 900
ttgaggcgct agggaagggg tgaagccgg tcgaagtcgg aaagcggcgg cagtacttt aaaagtggcc ccccaggc cagcttctt gaaccacat	tgagggggac catcacaaac gtatggaaca ggtgattgtg ctacttgctg ctacgttgac attattctcg cgctctgtc cgctctgtc ccgtaacctg catattccgc ccgtaacctg catattccgc cataccaaac ccgtatcgac	gaccgaggteg gacccgacac aaaatctaca agacggctgg cggtttctct aattctagtt gggcagctct tccaaatacc tctgcatgtt actggatctc tctgcatgtt	taaagttcac aggattcgt aggacgagga cctctggctt cagataccgc cctaatagtc ggacttgatc aaagacgcag gtttttcacc cagcgtagg	gcagcacatt gattccgctc ggacgatgat gtactagaaa atggtaattt ggcgagaatc tcaacagcat acatcgatcg	cagagcaagg acgaagaagg gcgacgcaga ttaaaatttt caaaggccag ctttgactag ttctataaac gataaatact tctcgatgtc aagtcagaaa	1020 1080 1140 1200 1260 1320 1380 1440 1500

•